

# ArgoNeuT Status

Mitch Soderberg

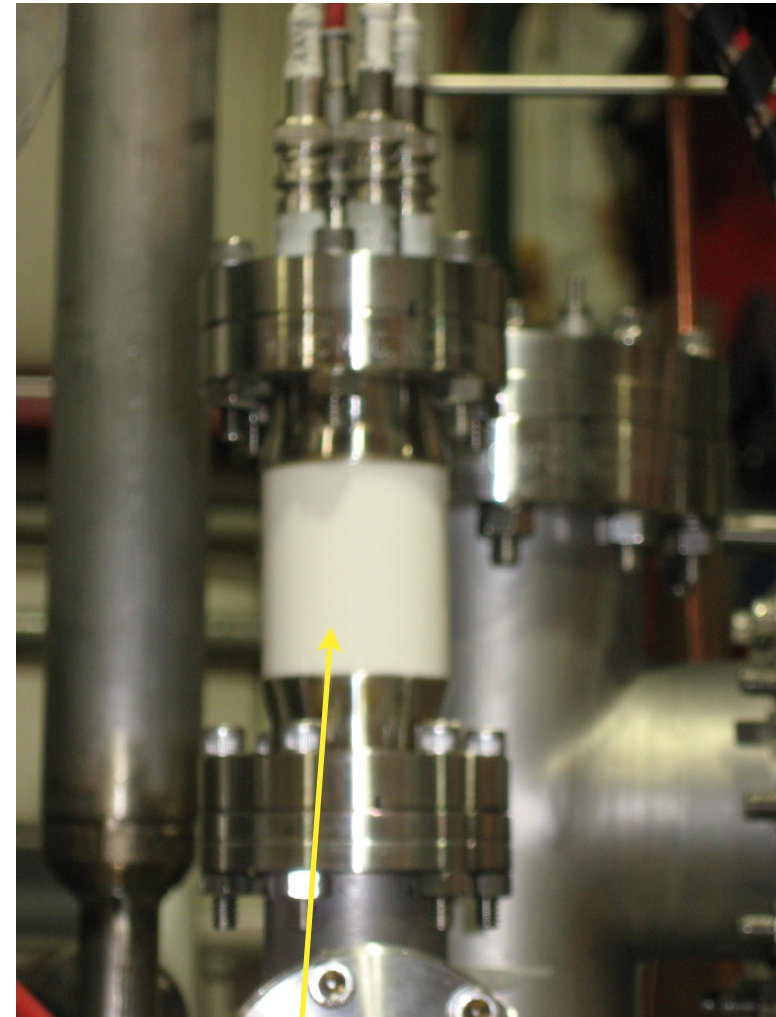
7/29/2008

# Update

- Fixed leaks, added new hardware.
- Pumping on inner / outer cryostat.
  - Inner Vacuum:  $6.0\text{E-}5$  torr
- 2 Filters regenerated, 1 more today / tomorrow
- Cryocooler chiller hooked up...checked yesterday.
- Working on debugging Purity Monitor.



# Vacuum Work

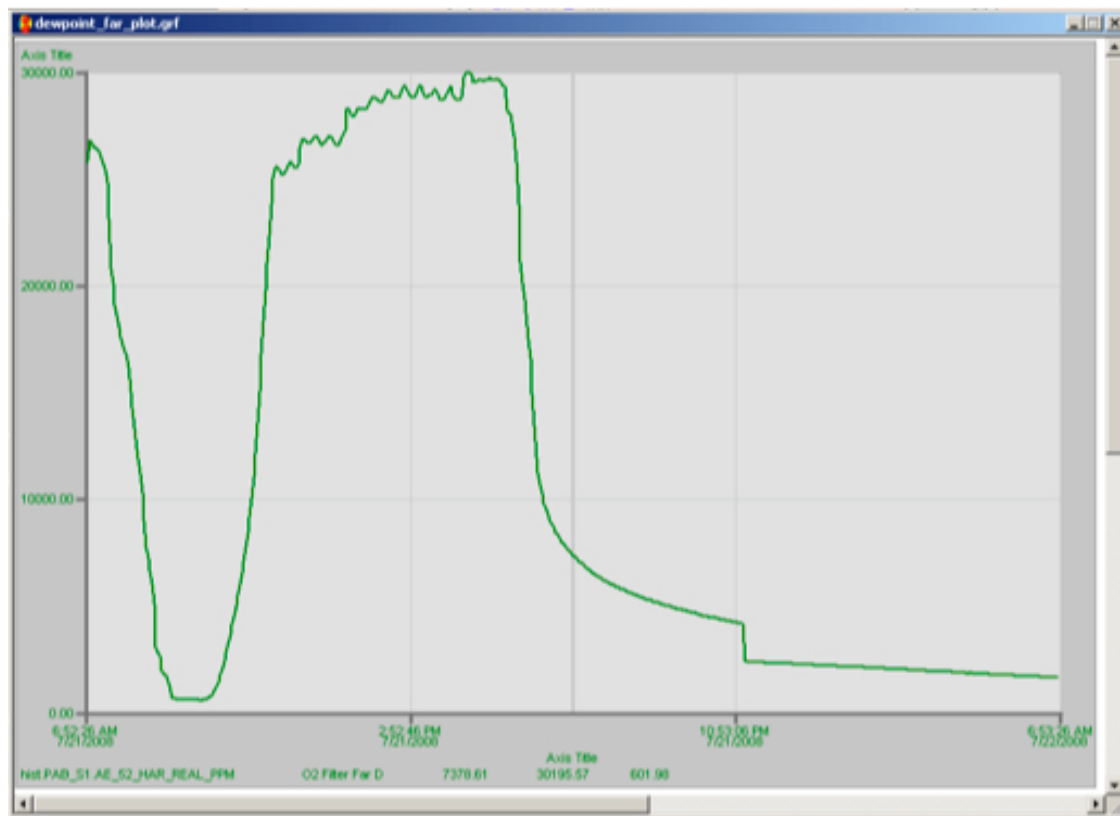


- Large turbo now isolatable via nice MDC valve.
- Leaky SHV feedthrough replaced with commercial SHV feedthrough plus electrical break.



# Filters

- 2 Filters regenerated, 1 more today.
- Added thermocouples to monitor temperature of heating tape directly.
- Plots show dew point as a function of time in exhaust 95:5 Ar:H gas.
- Working on integrating temperature data to these plots....
- Need to flush with LAr and place in system.



Filter C



Filter A

# Cryocooler Chiller

- Rich Schmitt suggested we go with a bigger chiller than the initial one we had borrowed.
- Out at PAB now....water lines checked yesterday...looks good.



# To-Do

- We're very close to first filling.
- Still to be done:
  - Order LAr (from FNAL stockroom)
  - Flush ~10 liters of LAr through each of the filters.
  - Regenerate 3rd filter (not necessary before filling)
  - Place filters into system....pump out.
  - Test Purity Monitor system in vacuum (already started)
  - Test LeCroy 1440 (T?)
  - Determine Slow Control status (Dan Markley)
  - Setup Cosmic Trigger
  - Test Cryocooler
  - (Re)Assemble Fill Line
  - Pump out guard vacuums.
  - Electronics needs?
  - Other?



**Thanks Taritree!**